AMENDMENTS

This listing of claims replaces all prior versions and listings of claims in the application.

1.   1.   (Currently amended)   A system for synchronizing a portable
2. transceiver to a network, comprising:
3.   a crystal oscillator;
4.   a frequency synthesizer adapted to receive an output of the crystal oscillator;
5.   logic coupled to the crystal oscillator, the logic configured to estimate a
6. frequency error of a received signal, the frequency error determined by a comparison
7. of the received signal from the network with the output of the crystal oscillator; and
8.   a first control signal supplied from the logic to the frequency synthesizer, the
9. first control signal configured to adjust the frequency synthesizer to compensate for
10. the frequency error.

1.   2.   (Original)   The system of claim 1, further comprising:
2.   tuning circuitry coupled to the crystal oscillator, the tuning circuitry having a
3. limited adjustment capability; and
4.   a second control signal supplied from the logic to the tuning circuitry, the
5. second control signal configured to adjust the tuning circuitry, the tuning circuitry
6. configured to compensate for the error.

1.   3.   (Original)   The system of claim 2, wherein the adjustment of the
2. frequency synthesizer adjusts the timing of the portable transceiver with respect to a
3. communication network.

1.   4.   (Original)   The system of claim 2, wherein the timing adjustment
2. comprises adjusting the timing of a transmitter, a receiver, a coder/decoder
3. (CODEC) and a sleep calibration element.

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1   5.   (Original)   The system of claim 3, wherein the tuning circuitry

2   comprises a digital-to-analog converter.

1   6.   (Original)   The system of claim 3, wherein the tuning circuitry

2   comprises a capacitance array.

1   7.   (Original)   The system of claim 6, wherein the capacitance array

2   comprises fixed capacitance.

1   8.   (Original)   The system of claim 6, wherein the capacitance array

2   comprises variable capacitance.

1   9.   (Original)   The system of claim 8, wherein the adjustment

2   capability of the capacitance array can tune the system to between ±2 parts per

3   million (ppm) and ±2.5ppm with respect to the frequency and timing of the

4   communication network.

1   10.   (Currently amended)   A method for synchronizing a portable

2   transceiver to a network, comprising:

3   determining a frequency error of a signal received by the portable transceiver

4   <u>when compared to a frequency generated within the portable transceiver</u>; and

5   if the frequency error is less than a predetermined value, adjusting the

6   frequency of the system by adjusting a frequency synthesizer to compensate for the

7   error.

1   11.   (Original)   The method of claim 10, further comprising:

2   adjusting the frequency of the crystal oscillator by adjusting a tuning circuit

3   associated with the crystal oscillator.

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1   12.   (Original)   The method of claim 11, wherein the adjustment of the

2   frequency synthesizer adjusts the timing of the portable transceiver with respect to a

3   communication network.

1   13.   (Original)   The method of claim 12, wherein the timing

2   adjustment comprises adjusting the timing of a transmitter, a receiver, a

3   coder/decoder (CODEC) and a sleep calibration element.

1   14.   (Original)   The method of claim 12, further comprising using a

2   digital-to-analog converter (DAC) to adjust the frequency of the crystal oscillator.

1   15.   (Original)   The method of claim 12, further comprising using a

2   capacitance array to adjust the frequency of the crystal oscillator.

1   16.   (Original)   The method of claim 15, further comprising using a

2   fixed capacitance array.

1   17.   (Original)   The method of claim 15, further comprising using a

2   variable capacitance array.

1   18.   (Original)   The method of claim 17, wherein the adjustment

2   capability of the variable capacitance array tunes the system frequency to between ± 2

3   parts per million (ppm) and ± 2.5ppm of the frequency of the communication

4   network.

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1   19.   (Currently amended)   A system for synchronizing a portable

2   transceiver to a network, comprising:

3   means for determining a frequency error of a signal received by the portable

4   transceiver when compared to a frequency generated within the portable transceiver;

5   and

6   means for adjusting the frequency of the system by adjusting a frequency

7   synthesizer to compensate for the frequency error if when the frequency error is less

8   than a predetermined value.

1   20.   (Original)   The system of claim 19, further comprising:

2   means for adjusting the frequency of the crystal oscillator by adjusting a

3   tuning circuit associated with the crystal oscillator.

1   21.   (Original)   The system of claim 20, wherein the adjustment of the

2   frequency synthesizer adjusts the timing of the portable transceiver with respect to a

3   communication network.

1   22.   (Original)   The system of claim 21, wherein the timing

2   adjustment comprises adjusting the timing of a transmitter, a receiver, a

3   coder/decoder (CODEC) and a sleep calibration element.

1   23.   (Original)   The system of claim 21, wherein the means for

2   adjusting the frequency of the crystal oscillator comprises a digital-to-analog

3   converter (DAC).

1   24.   (Original)   The system of claim 21, wherein the means for

2   adjusting the frequency of the crystal oscillator comprises a capacitance array.

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1   25.   (Original)   The system of claim 24, wherein the capacitance array

2   comprises a fixed capacitance array.

1   26.   (Original)   The system of claim 24, wherein the capacitance array

2   comprises a variable capacitance array.

1   27.   (Original)   The system of claim 26, wherein the adjustment

2   capability of the capacitance array tunes the system frequency to between ±2 parts

3   per million (ppm) and ±2.5ppm of the frequency of the communication network.

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